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OF GRADUATE EDUCATION AND SPECIAL PROGRAMS

FALL SESSION 1974

WORCESTER STATE COLLEGE

SEPTEMBER 9 - DECEMBER 20

[#2]

Table of Contents

Introduction	2
Registration Policy	4
Tuition & Fees	5
Tuition Refunds	6
Credit Information	7
Withdrawal Policy	8
Comprehensive Examinations	8
Library Cards	8
Parking Regulations	8
Advising	8
Veterans	9
Faculty	10
Course Listings	12
Course Descriptions	19

INTRODUCTION

The Division of Graduate Education and Special Programs

The Division of Graduate Education and Special Programs is the official designation (effective September 1, 1974) for the branch of the College which serves all part-time students, whether graduate or undergraduate, whether matriculated or non-matriculated.

Overall responsibility for the Division rests with the Dean of Special Programs. A Coordinator of Graduate Education and a Coordinator of Continuing Education have also been appointed to assist students in planning their programs of study. Advisors will be assigned to all matriculated students, that is, those who have been accepted as degree candidates, both graduate and undergraduate.

The Part-Time Undergraduate Program will enable students to major in Sociology, Psychology or Administrative Studies (Business Administration). The Graduate Program now offers the Master of Education degree with concentrations in nineteen areas.* In addition, the Division of Graduate Education and Special Programs will offer mini-courses, conferences, workshops, institutes and community service courses.

To apply for admission to graduate programs, contact the Office of Graduate Education and Special Programs at Worcester State College, 799-2405. In the case of part-time undergraduate students, apply for admission directly to the Office of Undergraduate Admissions, 754-6861, Ext. 206.

Please note that the Division reserves the right to cancel any course which does not have a minimum enrollment of 20 students. It will be useful to remember that courses carrying undergraduate credit only are numbered in the 7-series; courses carrying both graduate and undergraduate credit are numbered in the 8-series; and courses carrying graduate credit only are numbered in the 9-series.

*Areas of Concentration for M.Ed. Candidates

Audio-Visual Media
Biology
Chemistry
Community Education
Computer Science
Counselor Education
Early Childhood Education
Elementary Education
English
History
Language Arts
Leadership in Ed. Admin.
Learning Disabilities
Library Science - Media
Mathematics
Reading Specialist
Secondary Education
Spanish
Urban Education

REGISTRATION POLICY

REGISTRATION IN PERSON:

Matriculating students in Master's or Bachelor's Degree Program may register from July 29, 1974 through August 1, 1974 between the hours of 9:00 a.m. to 5:00 p.m. and 6:00 to 9:30 p.m., and August 2 from 9:00 a.m. to 4:30 p.m.

General and Mail Registration will be accepted from August 5 through September 6, 1974, Monday through Thursday between the hours of 9:00 a.m. to 5:00 p.m. and 6:00 to 9:30 p.m. Fridays from 9:00 to 4:30 p.m.

REGISTRATION BY MAIL:

Students should complete thr registration form accurately. They should determine the amount of payment by using information provided in the Bulletin. The completed registration form, check, and self-addressed envelope should be mailed to:

Division of Graduate and Continuing Education
Worcester State College
Worcester, Massachusetts 01602

HOLIDAY MAKE-UP DATES

Columbus Day		
October 14, 1974	make-up date	October 18, 1974
Veteran's Day		
October 28, 1974	make-up date	November 1, 1974
Thanksgiving Day		
November 28, 1974	make-up date	December 6, 1974

TUITION

Per Semester Hour

Graduate and Continuing Education Students

Massachusetts Resident	$22.00
Non-Resident of Massachusetts	$29.00
Audit (Resident and Non-Resident)	$15.00
Part-time Matriculated, Undergraduate Students, Massachusetts Resident	$10.00
Non-Resident of Massachusetts	$10.00
Audit (Resident and Non-Resident)	$15.00

FEES

Registration Fee Per Semester (Fee non-refundable)	$10.00
Library Fee Per Semester (Fee non-refundable)	$10.00
Late Registration Fee	$ 2.00
Course Change Fee	$ 2.00
Parking Fee (Academic Year)	$ 2.00
Graduate Fee (Persons receiving degrees)	$ 5.00

Under No Circumstances Will Any of the Registration and Library Fees be Returned. All Tuition and Fees are Due the Day of Registration and Are Payable by Check or Money Order.

TUITION REFUNDS

Students who withdraw from courses within the established time period will be granted refunds as follows:

Withdrawn prior to the second class meeting	100% refund
Withdrawn prior to the third class meeting	80% refund
Withdrawn prio to the fourth class meeting	60% refund
Withdrawn after the fourth class meeting	No refund

No refund is permitted if the course status is changed from credit to audit. A student who is entitled to a refund must obtain a form for each course for which a refund is due and file it with the Offices of the Program of Continuing Education or Graduate Education. Forms are available at either office located in the Science Building, Room 112.

Telephone and other unofficial notices will not be accepted as notification of withdrawal. The Day and Time That the Notice is Received Will Be the Official Date of Withdrawal.

CREDIT INFORMATION

Regulations and requirements for degree study may be obtained at the Offices of Continuing Education and Graduate Education, Science Building, Room 112, Worcester State College. It is urgently recommended that the guidance and advice of the Directors and your faculty advisor in your field of concentration, wherein you must have five approved courses, be sought and faithfully followed in the planning of a program of study. For teachers in service, a maximum of six semester hours per semester may be credited toward a degree. The Graduate Record Examination required of all graduate degree students will be conducted at Worcester State College. Registration through Educational Testing Service, Princeton, New Jersey, should be completed three weeks prior to the test date. Tests Dates: October 26, 1974, December 14, 1974, January 18, 1975, February 22, 1975, April 26, 1975 and June 21, 1975.

Only the Aptitude part of the GRE Test is required of degree candidates. The test must be taken during the first year of graduate study.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater, (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art, subject to advance approval by Worcester State College.

WITHDRAWAL

Ceasing to attend a class does not constitute official withdrawal from a course. If notice is not given to the Offices of Continuing Education and Graduate Education a grade of failure will be recorded.

COMPREHENSIVE EXAMINATION

The Graduate Comprehensive Examination will be conducted on December 4, 1974 at 4:00 p.m. All Degree candidates must file the "Intention to Graduate Form" with the Director in Room S-112, early in the final semester of graduate study.

LIBRARY CARDS

If you do not have a library card, please register for one at the Learning Resources Center.

ADVISING

Advising assistance in selection and registering in all courses is available in Room S-112, Science Buidling, Worcester State College Graduate Office, Telephone: 799-2405, 754-6861.

PARKING REGULATIONS

Students must park in the student parking areas behind the Science Building or to the side of the Gymnasium Building.

VETERANS

WORLD WAR II AND KOREAN – Any resident of Massachusetts who has served in any branch of the armed forces for at least ninety days, one of which must have been served either between September 16, 1940 and December 31, 1946, or between June 25, 1950 and January 31, 1955 and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photostatic copy) of a certificate of satisfactory service in the case of an officer together with proof of residence in advance of the opening date of the class meeting. Veterans in this category must show proof of their ineligibility for education benefits under P.L. 351, Chapter 34.

VIETNAM AND COLD WAR VETERANS – Veterans in this category who are ineligible for educational benefits under P.L. 351, Chapter 34 and who are registered in a Bona Fide Bachelor or Master's degree program may be exempt from tuition payment under the following conditions:

1. That they show proof of not being eligible for Federal Education Benefits.
2. That they still have eligibility under Massachusetts General Laws.

It is very unlikely that any Vietnam or Cold War Veteran would be eligible for tuition free courses since the passing of the recent legislation of Chapter 514 on tuition free veteran courses in the Program of Continuing Education. **For Registration Purposes All Veterans Who Are Not Exempt From Paying Tuition Must Register on Non-Veteran Registration Cards.**

FACULTY

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MATHEW ZELMAN, B.A., M.A.

COURSE LISTINGS

The first line of each course listing below indicates the course number and course title. The second line indicates the name of the instructor, the day the course is offered (day code), time (time code), and room number. Day Code: M (Monday); T (Tuesday); W (Wednesday); TH (Thursday); Time Code: A (4:30 – 7:00 p.m.) B (7 – 9:30 p.m.) C (5 – 8 p.m.).

ART

AR8-258	Drawing in Various Media			
	D. Carter	T	B	A-400
AR8-261	Teaching Art in The Classroom			
	M. Dolphin	TH	A	A-400
AR8-262	Sculpting I & II			
	M. Merle	W	B	G-23

BIOLOGY

BI8-801	Fresh Water Ecology			
	T. Graham	M	A	S-117A
BI8-872	Plant World and its Evolution			
	P. Holle	T	A	S-117A
BI9-949	Reproductive Physiology			
	C.Chauvin	M	B	S-132

BUSINESS ADMINISTRATION

AD7-200	Internship Seminar			
	TBA	W	B	S-223
AD7-300	Theory & Cases in Administration I			
	Pre Req.: AD-200 or Per. of Dept.			
	TBA	M	B	S-223
AD7-310	Managerial Acc't & Budgeting			
	Pre-Req.: Required			
	TBA	TH	B	S-214
AD8-407	Fundamental of Production Management I			
	TBA	T	B	S-117 B

CHEMISTRY

CH8-872	Chemistry of Carbon Compounds			
	A. Cooper	M	A	S-301
CH8-875	Science, Technology & Society			
	M. Merken	W	A	S-301

COMMUNICATION DISORDERS

CD8-035	Normal Development of Speech and Language			
	TBA	T	A	S-125
CD8-260	Speech, Hearing & Language Disfunctions in the Classroom For Public School Speech/Hearing Clinicians			
	C. Lysaght	M	A	S-123B
CD8-280	Voice and Articulation			
	A. Cohen	TH	A	S-124
CD8-310	Introduction to Hearing Science			
	C. Hengen	M	A	S-126
CD8-376	Aural Rehabilitation Practicum			
	R. Guerin	T	A	S-126
CD8-400	Rhythm Problems and Allied Disorders of Speech			
	J. McLaughlin	W	A	S-128
CD8-033	Advanced American Sign Language			
	S. Bitticks	TH	A	S-125

COMPUTER SCIENCE

CS7-521	Introduction to Computer Science			
	TBA	W	A	LRC-304
CS8-170	Computer Programming in Cobal			
	C. Glassbrenner	M	A	LRC-304
CS8-267	Using the Statistical Package for the School Sciences			
	TBA	TH	B	LRC-304
CS8-579	Computer Program, Fortran IV			
	TBA	T	B	LRC-304

ECONOMICS

EC8-100	Principles of Economics			
	TBA	TH	B	S-212

EDUCATION

ED8-003	Individualizing Science in Elementary School			
	C. Geer	W	A	S-227
ED8-010	Secondary Social Studies Curriculum			
	J. Zegarra	TH	B	S-123B
ED8-015	Characteristics of Children with Learning Disabilities			
	Sr. J. Concannon	TH	A	S-216
ED8-016	Methods and Materials for Children with Learning Disabilities Pre. Req.: ED8-015 (for Classroom Teachers)			
	B. Desrosiers	M	A	S-227
ED8-017	Methods and Materials for Children with Learning Disabilities Pre. Req.: Section B (for Learning Disability Teachers)			
	B. Desrosiers	TH	B	S-227
ED8-057	Current Trends in the Teaching of Reading			
	M. Jennings	W	A	S-226
ED8-072	Driver & Traffic Safety Education I			
	A. Capozza	T	B	S-228
ED8-075	Curriculum for Early Childhood Education			
	J. Polito	T	A	LRC-112

ED8-084	Fundamentals of School Finance			
	J. Keefe	W	B	S-225 B
ED8-098	Using Comp. as an Instructional Aid			
	J. Dowling	TH	B	AMP.
ED8-103	Crucial Issues in Secondary Education			
	C. Peterson	W	B	S-124
ED8-109	Substitute Teaching Secondary Education			
	M. Zax	TH	A	S-205
ED8-154	Children's Literature & Storytelling for Early Childhood Education			
	M. Titus	M	B	S-129
ED8-290	Philosophy of Education			
	W. Masterson	M	A	S-231
ED8-291	Philosophy of Education			
	T.B.A.	W	C	S-226
ED8-750	Educational Psychology			
	A. Daly	TH	A	S-219A
ED8-766	Chapter 766 its' implications for School Administrators			
	J. Underwood	M	B	S-226
ED8-777	Issues in Elementary Education			
	R. Griffiths	TH	A	S-227
ED9-003	Creative Writing for Pupils in the Elementary School			
	A.B. Pilon	TH	A	S-124
ED9-017	Assessment of Specific Learning Needs for the Classroom Teacher			
	E. Kallgren	T	A	S-128
ED9-021	Administrative Case Studies			
	R. Sine	TH	B	S-226
ED9-051	Research in Education			
	A. Eddy	M	A	S-226
ED9-052	Research in Education			
	D. Hilton	T	B	S-216
ED9-086	The Elementary School Principal for 70's			
	G. Joseph	W	A	S-216
ED9-087	Foundations in School Administration			
	J.F. O'Mara	T	A	S-132
ED9-092	Seminar in Public Administration			
	T. Provo	M	B	S-228
ED9-290	Advanced Philosophy of Education			
	D. Traub	T	A	S-124
ED9-291	Advanced Philosophy of Education			
	C. Schlosser	M	B	S-124
ED9-312	Individualizing Reading & Language Arts in Elementary School			
	A.B. Pilon	M	A	S-124
ED9-318	Community School Processes and Problems			
	W. O'Neil	T	A	S-224

EDUCATION

ED9-343	Intellectual Development In Early Childhood Education			
	J. Bunuan	W	A	S-214

ED9-723	Advanced Urban Education			
	C. Quint	TH	A	S-211A
ED9-752	Advanced Psychology Foundation of Education			
	J. Shea	W	A	S-124
ED9-753	Advanced Psychology Foundation of Education			
	B. Guarini	T	B	S-223

ENGLISH

EN7-110	Survey of American Literature I			
	TBA	W	B	S-126
EN7-111	Survey of American Literature II			
	R. Walker	TH	B	S-132
EN8-177	Whitman to Ginsberg			
	C. Gibbs	TH	A	S-219B
EN8-187	Influence of Romanticism			
	P. Edmunds	M	A	S-219B
EN8-193	Science Fiction			
	N. Barraford	M	A	S-316
EN8-205	Theatre of Revolt			
	J. Roberts	M	B	S-117A

GEOGRAPHY

GE8-427	World Regional Geography Part I			
	G. Knadler	W	B	A-316
GE8-428	Geography of Viniculture			
	R. Thompson	M	A	A-304

GUIDANCE

GU8-061	Principles & Practices of Guidance			
	J. Scannell	TH	B	S-126
GU8-063	Techniques of Counseling			
	L. Farrey	T	B	S-217
GU8-261	Measurement & Evaluation for Counselors			
	D. Quist	T	A	S-227
GU9-062	Organization & Admission of Guidance			
	P. Steinkrauss	W	B	S-217
GU9-068	Individualized Intelligence			
	G.F. Taylor	T	A	S-223
GU9-070	Psychology of Vocational Adjustment			
	N. Limoges	W	A	S-219A
GU9-074	Student Personnel Services in Higher Education			
	J. Scully	M	B	S-214
GU9-621	Counseling & Psychotherapy			
	R. Gilmartin	TH	B	S-217

HEALTH

HE8-843	Human Sexual Awareness			
	TBA	M	A	L-304
HE8-844	Values Clarification in Health Education			
	TBA	W	A	S-304

HISTORY

HI8-122	The Image & Role of Women In Western History			
	G. Leeds	W	B	S-225A
HI8-672	The U.S. & East Asia			
	E. Shea	TH	A	S-217
HI8-673	Islamic History I			
	N. Saliba	M	B	S-219A
HI8-693	Russia In the Era of Catherine The Great			
	G. Leeds	T	A	S-225A
HI8-866	History of England 1485-1714			
	Cheng Yuan	W	A	S-225A

MATHEMATICS

MA8-568	Special Problems			
	Staff	TH	A	S-212
MA8-571	Calculus II			
	M. Kotzen	M	B	S-132
MA8-576	Number Theory			
	R. Perry	T	A	S-205
MA8-578	Modern Mathematics			
	V. Campo	W	B	S-211A

MEDIA

ME8-101	Introduction to Media			
	Staff	M	A	LRC 118
ME8-152	Utilization of Inst. Media			
	G. Mitchell	W	A	LRC 118
ME8-160	Producing & Dir. T.V. Program			
	R. Jones	T	C	LRC 160
ME8-330	Learning Resources for Children			
	V. Piccolo	W	B	LRC 116

MUSIC

MU8-251	Music Appreciation			
	L. Celona	M	B	S-125

NATURAL SCIENCE

NS8-860	Astronomy in the Space Age			
	H. Chapman	T	B	S-228

NURSING

NU7-320	Nursing Through the LIfe Span I - Maternal-child Nursing			
	M. Farrell	S	9—11:30 a.m.	
NU8-930	The Person in the Profession of Nursing			
	L.R. Goodman	T	A	
NU8-934	Coronary Care for Nurses			
	M.K. Alexander	T,TH	A	

PHILOSOPHY

PH7-101	Introduction to Philosophy			
	N. Brophy	M	A	S-216
PH7-320	Religion East & West			
	G. Garrelts	T	A	S-312
PH8-100	Logic, Knowledge & Wisdom			
	D. Traub	W	B	S-211A
PH8-120	Philosophical Psychology			
	N. Brophy	W	B	S-211B
PH8-130	Ethics: Moral Dimensions of Human Existence			
	N. Brophy	TH	B	S-211B
PH8-245	Philosophy of Social Sciences			
	G. Robbins	TH	B	S-219A
PH8-747	Philosophy of Human Potentiality: An Experimental Approach Sec. A			
	C. Schlosser	TH	B	LRC 304
PH8-748	Philosophy of Human Potentiality: An Experimential Approach Sec. B			
	C. Schlosser	W	A	S-126

PHYSICAL EDUCATION

PE8-291	Techniques of Teaching Team Sports			
	F. Dyson	W	A	S-212
PE8-298	Learning Through Movement & Interrelated Arts			
	H. Semerjian	M	A	Gym

PSYCHOLOGY

PS7-110	General Psychology I			
	J. Lonergan	M	A	S-205
PS7-111	General Psychology II			
	G. Matheson	W	B	S-205
PS8-749	Theories of Personality			
	R. O'Connor	T	B	S-224
PS8-758	Psychology of Adolescence			
	J. Jones	T	A	S-219A
PS8-760	Psychology of Adult Learner			
	T.B.A.	TH	A	S-211B

SOCIOLOGY

SO8-221	Medical Sociology			
	B. Khlief	W	A	S-214
SO8-222	Social Psychology			
	T. Johnson	T	B	S-219B
SO8-226	Seminar in Research Methods			
	F. Brooker	W	B	S-125
SO8-227	Urban Sociology			
	M. Zelman	M	A	S-117B
SO8-475	Introduction to Sociology			
	F. Pizziferri	M	B	S-219B
SO8-480	Juvenile Delinquency			
	R. Goss	TH	B	S-128

SPEECH AND DRAMATICS

SD8-250	Oral Interpretation of Literature			
	D. Seiffer	T	A	LRC 118
SD8-290	Theatre for Children			
	A.M. Shea	T	A	LRC 116
SD8-311	Costume and Make-up for Performance			
	A.M. Shea	TH	A	LRC 112

SPANISH

SP8-610	Fundamentals of Spanish I			
	F. O'Connor	W	B	S-312
SP8-613	Spanish Practicum III			
	K. Shea	T	A	S-211B
SP8-681	Contempory Spanish Novel			
	TBA	TH	A	S-117B
SP8-682	Hispanic World Today			
	TBA	W	B	S-123B
SP8-685	Methods and Materials in Bilingual Program			
	TBA	M	B	S-123B

URBAN STUDIES

UR8-212	The City and its People			
	V. Powers	TH	B	S-117B
UR8-723	The Analysis of Urban Livability			
	H. Langlois	T	B	S-117A

COURSE DESCRIPTIONS

The letters in parenthesis which follow each course description list the day and time which the course is offered. The code used for such a listing is as follows: Day Code – M (Monday); T (Tuesday); W (Wednesday); TH (Thursday). Time Code: A (4:30 – 7:30 p.m.); B (7 – 9:30 p.m.); C (5 – 8 p.m.).

ART

AR8-258 **DRAWING IN VARIOUS MEDIA.** Both realistic representation and abstract statements explored using such media as pencil, ink, conte crayon. D. Carter (T,A) 3 sem. hrs. Art Room.

AR8-261 **TEACHING ART IN THE CLASSROOM.** Concerned with the place and function of art in the public schools; stresses contemporary practices through studio experiences. M. Dolphin (TH,A) 3 sem. hrs. A-400.

AR8-262 **SCULPTING I.** Workshop course using clay, wood and various metal materials; beginning and advanced students can register; students start out at their own level. M.Merle (W,B) 3 sem. hrs. Room G-23.

BIOLOGY

BI8-801 **FRESH WATER ECOLOGY.** Overview of the physical, chemical, and biological factors present in standing and running waters with emphasis upon their effect on the ecology and productivity of living systems; identification of living fresh-water organisms and the physical and chemical properties of their environment. T.E. Graham (M,A) 3 sem. hrs. S-212.

BI8-872 **PLANT WORLD AND ITS EVOLUTION.** An understanding and appreciation of the plant world-especially as it exists in the New England area; initial class meetings devoted to techniques of tree identification by means of printed diagnostic keys and tree walks; subsequent meetings devoted to consideration of the several groups of plants-algae, fungi, mosses, ferns, conifers, and flowering plants; acquaintance with a select list of New England flowers through a variety of recommended methods. P.A. Holle (T,A) 3 sem. hrs. S-211A.

BI9-949 **REPRODUCTIVE PHYSIOLOGY.** The influence of the sex hormones on the reproductive system, beginning with embryo-genesis and early maturation and

extending into the areas of fertilization, pregnancy, gestation, parturition and lactation; outside readings required. Prerequisites: at least six semester hours of Biology (Physiology or Endocrinology preferred). C. Chauvin (M,B) 3 sem. hrs. S-132.

BUSINESS ADMINISTRATION

AD7-200 INTERNSHIP SEMINAR. Exposing and involving sophomores in internships undertaken by seniors enrolled in Administrative Studies; senior internship seminar planned every three weeks to enable students to match experiences so that common generalizations can be extracted; meetings will rotate so that sophomores will meet one week with business interns, the next week with health interns, and the following week with government interns; provides sophomores with more information about their junior and senior years in the major, and prepares them for a more productive internship of their own as seniors, if they choose. T.B.A. (W,B) 3 sem. hrs. S-223.

AD7-300 THEORY AND CASES IN ADMINISTRATION I. The role of administration in organization; concepts of the organization and the administration of business, health and governmental institutions; the administrative functions of organizing, directing, and the relationships of authority and responsibility treated in detail. Prerequisite: AD-200 or permission of the Department. T.B.A. (M,B) 3 sem. hrs. S-223.

AD7-310 MANAGERIAL ACCOUNTING AND BUDGETING Prerequisites: AD 110, AD 111, AD 200. One semester course at the intermediate accounting level; emphasis given to the analysis of financial statements of generally accepted accounting practices from the administrator's viewpoint; use of summary statements for understanding the financial position of an organization; problems of budgeting and the cost of goods and services in above areas of administrative studies. T.B.A. (TH,B) 3 sem. hrs. S-214.

AD8-407 FUNDAMENTALS OF PRODUCTION MANAGEMENT I. Prerequisite: AD 200 or permission of the Department. Intended to be the first of a series of two courses for senior administrative studies student majors; applying the principles of organization and administration to the function of production fundamental principles governing the effective translation of production requirements into facilities, procedures, and operating organizations to produce the required goods and services; determination of effective methods and selection of manufacturing materials, handling equipment, plant layouts, buildings and location. T.B.A. (T,B) 3 sem. hrs. S-117B.

CHEMISTRY

CH8-872 **CHEMISTRY OF CARBON COMPOUNDS.** A course in organic chemistry which concerns the major classes of organic compounds; topics include the structure, nomenclature, and stereochemistry of organic compounds; also includes reactions of organic compounds with emphasis placed on the mechanisms of these reactions. Prerequisites: General Chemistry I and II A. D. Cooper (M,A) 3 sem. hrs. S-301.

CH8-875 **SCIENCE, TECHNOLOGY AND SOCIETY** The impact of science and technology upon the modern world; representative problem areas to be considered are — population, communications transportation, energy, technological assessment, health, space and government. M. Merken (W,A) 3 sem. hrs. S-301.

COMMUNICATION DISORDERS

CD8-033 **ADVANCED SIGN LANGUAGE.** Giving students with a basic knowledge of signs more facility in their uses; exposure to deaf people of varied language levels; expanding sign vocabularies; attaining a level of proficiency in the expressive and receptive use of signs which will enable them to communicate with the Deaf; "A Basic Course in Manual Communication" published by the National Association of the Deaf (NAD) and other NAD material may be used. S. Bitticks (TH,A) 3 sem. hrs. S-125.

CD8-035 **NORMAL DEVELOPMENT OF SPEECH AND LANGUAGE.** In depth coverage of the normal acquisition and development of speech and language; expressive and receptive language, including phonology, morphology, syntax, and semantics covered. T.B.A. (T,A) 3 sem. hrs. S-125.

CD8-260 **SPEECH, HEARING AND LANGUAGE DISFUNCTION IN THE CLASSROOM.** For Public School Teachers and/or Public School Speech/Hearing Clinicians. Typical symptomatology of speech, language, and hearing disfunctions; techniques and materials for the development of these basic skills introduced C.E. Lysaght (M,A) 3 sem. hrs. S-123 B.

CD8-280 **VOICE AND ARTICULATION.** The etiology, evaluation, diagnosis, and therapeutic procedures; brief review of the anatomy and physiology of the vocal and articulatory structures; topics included — functional, psychological, and organic voice and articulation disorders; each student must be able to do a satisfactory voice and articulation evaluation in order to complete course. Prerequisites: Speech Pathology, Phonetics,

Anatomy & Physiology of the Speech and Hearing Mechanism, Normal Development of Speech and Language. A. Cohen (TH,A) 3 sem. hrs. S-124.

CD8-310 **INTRODUCTION TO HEARING SCIENCE.** Basic information necessary for the field of Audiology; topics included – acoustics, frequency and intensity measurements, and anatomy and physiology of the human ear as it relates to the study of hearing. Prerequisites: Speech Pathology, Phonetics, and Anatomy and Physiology of the Speech and Hearing Mechanisms. C.G. Hengen (M,A) 3 sem. hrs. S-126.

CD8-376 **AURAL REHABILITATION PRACTICUM.** Basic experience in management of clients with hearing loss; consideration given to the conservation of residual hearing and techniques of auditory training; clinical practicum with clients provided. Prerequisites: Rehabilitation of the Auditorily Impaired, and permission of Aural Rehabilitation Faculty. R. Guerin (T,A) 3 sem. hrs. S-126.

CD8-400 **RHYTHM PROBLEMS AND ALLIED DISORDERS OF SPEECH.** Introduction to major theories of stuttering and associated problems, e.g., cluttering basic therapeutic procedures for children and adults. Prerequisites: Speech Pathology, Phonetics and Anatomy & Physiology of the Speech and Hearing Mechanisms. J.F. McLaughlin (W,A) 3 sem. hrs. S-128.

COMPUTER SCIENCE

CS7-521 **INTRODUCTION TO COMPUTER SCIENCE.** Basic computer operation, capabilities, application in such fields as education, and effect on modern society; familiarization with terminology and equipment; programming using the language BASIC: non-technical approach. T.B.A. (W,A) 3 sem. hrs. LRC-304.

CS8-170 **COMPUTER PROGRAMMING WITH COBOL.** Fundamentals of Cobol programming: application to business oriented problems. C. Glassbrenner (M, A) 3 sem. hrs. LRC-304.

CS8-267 **USING THE STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES (SPSS).** Utilization of SPSS integrated system of computer programs for the analysis of social science data; types of analysis include descriptive statistics, simple frequency distributions, cross tabulations, simple correlation, multiple regression, and factor analysis. T.B.A. (TH,B) 3 sem. hrs. LRC-304.

CS8-579 **COMPUTER PROGRAMMING WITH FORTRAN IV.** Uses of computers for mathematical and scientific problem-solving; topics include input-out statements,

program branching, DO-loops, formatting, subscripted variables, subroutines, double-precision, character manipulation, and flowcharting. T.B.A. (T,B) 3 sem. hrs. LRC-304.

ECONOMICS

EC8-100 PRINCIPLES OF ECONOMICS. Basic economic analysis of full employment of national resources and their efficient allocation within the American mixed-enterprise system. T.B.A. (TH,B) 3 sem. hrs. S-212.

EDUCATION

ED8-003 INDIVIDUALIZING SCIENCE IN ELEMENTARY SCHOOL. Approaches to individualism of instruction in elementary school science; opportunity to design science activities consistent with individualization based on existing curricula; activities to be tried out with children and evaluations made; environmental education encouraged; individualized course. C.E. Geer (W,A) 3 sem. hrs. S-227.

ED8-010 SECONDARY SOCIAL STUDIES CURRICULUM. Designed for secondary school social studies teachers, administrators, curriculum directors and college seniors intending to become social studies teachers; increasing the knowledge and deepen the professional experience of social studies teachers; examination and evaluation of several social studies curriculi. J.E. Zegarra (TH,B) 3 sem. hrs. S-123 B.

ED8-015 CHARACTERISTICS OF CHILDREN WITH LEARNING DISABILITIES. This course provides a basic understanding of the learning disabled child through a consideration of the history and development of the area; the terminology and the current points of view. Factors which impede learning will further be analyzed through a discussion of diagnostic procedures. Class size limited to 20. Sr. J. Concannon (TH,A) 3 sem. hrs. S-216.

ED8-016 METHODS & MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES, SECTION A. Geared for regular classroom teachers of learning disabled children; the relationship model to Educational diagnosis; the child's approach to learning the nature of the instructional task; academic and perceptual programs and devices and equipment for the learning disabled child. Prerequisite: Introductory course in Learning Disabilities. B. Desrosiers (M,B) 3 sem. hrs. S- 277.

ED8-017 METHODS & MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES, SECTION B. For the perspective learning disabilities teacher; covers programs suitable for the resource room; relationship

model to Educational diagnosis; the child's approach to learning the nature of the instructional task; academic and perceptual programs and devices and equipment for the learning disabled child. Prerequisite: Introductory course in Learning Disabilities. B. Desrosiers (TH,A) 3 sem. hrs. S-277.

ED8-057 CURRENT TRENDS IN THE TEACHING OF READING. The function of reading in the modern school program; effective procedures for developing the basic reading skills; practical techniques for improving pupil competence in the reading-study skills of content areas; methods of diagnosing and correcting reading deficiences. Prerequisite: The Teaching of Reading or permission of Instructor. M. L. Jennings (W,A) 3 sem. hrs. S-226.

ED8-072 DRIVER AND TRAFFIC SAFETY EDUCATION I. A course to prepare teachers of driver and traffic safety education an opportunity to obtain State Department of Education Certification to teach in this field, and also to give an opportunity to teachers in driver and traffic safety education to improve their methods of teaching. A. Capozza (T,B) 3 sem. hrs. S-228.

ED8-075 CURRICULUM FOR EARLY CHILDHOOD EDUCATION. Attention in this course will be focused on the curriculum and the daily activities designed to enable young children to use their developmental powers to the fullest. Students will consider the ways and means by which the teacher creates an environment rich in learning opportunities, geared to the age-level characteristics of young children. New Methods being implemented in England and the United States will be included. J. Polito (T,A) 3 sem. hrs. LRC-112.

ED8-084 FUNDAMENTALS OF SCHOOL FINANCE. The financial support and the allocation of resources in public education; topics — personnel salaries, capital outlay; developmental expenditures, and the budgetary process; supply and demand in educational services and education expenditures as a part of national state, and local income. J. Keefe (W,B) 3 sem. hrs. S-225 B.

ED8-098 USING THE COMPUTER AS AN INSTRUCTIONAL AID. The use of the computer in the classroom, developing the Computer's Assisted Instruction; computer languages used are Cobol on a batch processing machine and Basic in a time sharing terminal environment. J. Dowling (TH,B) 3 sem. hrs. Amphitheater.

ED8-103 CRUCIAL ISSUES IN SECONDARY EDUCATION. Examination of the more important issues facing secondary education; emphasis on problem solving and case study approaches. C. Peterson (W,B) 3 sem. hrs. S-124.

ED8-109 **SUBSTITUTE TEACHING SECONDARY EDUCATION.** Analysis of role, goals, and methodology of teacher who substitutes from one day to less than complete marking period; emphasis on one or two days of substitute teaching; one period projects in major subject areas designed, role-played and analyzed; clinical workshop approach problems of those presently substituting; member and non-members of course evaluated, academically solved, and role played; micro teaching employed as analyzing technique. M. Zax (TH,A) 3 sem. hrs. S-205.

ED8-154 **CHILDREN'S LITERATURE & STORYTELLING FOR EARLY CHILDHOOD EDUCATION.** Survey of quality literature appropriate for early childhood. Topics will include the development of programs in literature, effective storytelling procedures, stimulating creative activities through books, poetry for the young child, award books, authors and their styles, and illustrators and their techniques. M. Titus (M,B) 3 sem. hrs. S-129.

ED8-290
291 **PHILOSOPHY OF EDUCATION.** The ontological epistemological-axiological principles of being, knowledge, and value and their relationship to the nature, existence and destiny of man and the aims of education; analysis of the metaphysical presuppositions of the major philosophers to be a basis of a critique of the opinions concerning nature, man, science, society, sanity and salvation upon which "educationists" have foundered and floundered; objective is to arrive at a precise understanding of the relations between educational theory and practice in order to establish a viable interpersonal process for educating the individual and society. ED8-290: W. Masterson (M,A) 3 sem. hrs. S-231. ED8-291: T.B.A. (W,B) 3 sem. hrs. S-226.

ED8-750 **EDUCATION OF PSYCHOLOGY.** The theoretical aspects of psychology for the classroom teacher; systematic analysis of the major schools of psychology and a study of the effects of heredity and environment; reading in such areas as the results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory. A. Daly (TH,A) 3 sem. hrs. S-219 A.

ED8-766 **CHAPTER 766 ITS' IMPLICATIONS FOR SCHOOL ADMINISTRATORS.** The overall changes, administrative service and instruction that Chapter 766 brings to the public and private special schools in the Commonwealth; focus on the preparation of the master plan submitted to the State Department — its design and implementation of the core evaluation teams and its' members dealing with parents concerning Chapter 766

with the administrative procedures to set up collaboratives to deal with the needs in rural areas; or in areas where small populations exist, and to explore the responsibilities of administrators dealing with all styles of special needs, dealing with discipline, learning, incorrigible youth, dropouts, phobics, and the creation of alternative programs to meet the expanding needs of children who cannot be programmed within the public schools —; selected experts brought in to support specific areas and assist the participants in setting up alternatives as well as the design for federal funds and collaboratives. J. Underwood (M,B) 3 sem. hrs. S-226.

ED8-777 **ISSUES IN ELEMENTARY EDUCATION.** Examinations of contemporary problems and issues in elementary education today; for the teacher and administrator with experience and for the prospective administrator in an elementary school; re-examination and assessment of the philosophy of the elementary school — the kinds of teachers needed in today's society, models for classroom teaching and control, curriculum developments, organization and administration of elementary education, multi-media, costs of education, and evaluation are among the topics to be explored; students expected to read widely and critically assess their own opinions and beliefs; one area of the student's choice researched in depth. R. Griffiths (TH, A) 3 sem. hrs. S-227.

ED9-003 **CREATIVE WRITING FOR PUPILS IN THE ELEMENTARY SCHOOL.** Awareness of what characteristics creative students display; teachers shown helpful ways in which these characteristics can be developed and strengthened in children's writings; teachers led through same steps and exercises pupils will be led through so that their own creative writing abilities can grow; professional books on creative writing written by authorities in the field studied; children's books and other materials designed to stimulate children's own creativity worked with and discussed. A.B. Pilon (TH,A) 3 sem. hrs. S-124.

ED9-017 **ASSESSMENT OF SPECIFIC LEARNING NEEDS FOR THE CLASSROOM TEACHER.** Course formerly known as "Testing of Learning Disabilities for the Classroom Teacher". Assessment of learning difficulties as they relate to classroom teaching; overview of testing procedures given by supportive personnel with emphasis on factors related to classroom use for training and remediation. Prerequisite: Tests and Measurements. E. Kallgren (T,A) 3 sem. hrs. S-128.

ED9-021 **EDUCATIONAL ADMINISTRATIVE CASE STUDIES.** Administrative principles and practices emerging from the study of case materials forms basis for class discus-

sion; decision-making functions of the administrator stressed. R.H. Sine (TH,B) 3 sem. hrs. S-226.

ED9-051 9-052 **RESEARCH IN EDUCATION.** Use of appropriate research methods in selection and evaluation of data; assisting the graduate student in the preparation and understanding of a research report; major areas of emphasis include the nature of and criteria for evaluating research, library, techniques and format of report, and necessary statistical concepts and methods of research; student expected to demonstrate his knowledge of these in a term research study. Prerequisite: A bachelor's degree from an accredited college. ED9-051: A. Eddy (M,A) 3 sem. hrs. S-226. ED9-052: D. Hilton (T,B) 3 sem. hrs. S-216.

ED9-086 **THE ELEMENTARY SCHOOL PRINCIPAL FOR THE 1970's.** For students concentrating in Elementary School Administration; following areas will be explored -- the role of the elementary school principal in school-community relations, line and staff relationships, problems of communications, program evaluation, and teacher recruitment; format of course designed to encourage individual involvement through the use of the seminar techniques. G. Joseph (W,A) 3 sem. hrs. S-216.

ED9-087 **FOUNDATIONS OF SCHOOL ADMINISTRATION.** Basic introduction to the principles of school administration; topics include – school population and student personnel, the organization and substance of the educational program; personnel of the school system, the physical plant and its facilities, governmental structure for education and intergovernmental relations, internal school organization, financing of education, school business administration, and the administrative process. J. F. O'Mara (T,A) 3 sem. hrs. S-132.

ED9-092 **SEMINAR IN PUBLIC SCHOOL ADMINISTRATIVE LEADERSHIP.** Specialized graduate course; explores the most modern trend of educational administration technology; focus on an investigation of complex educational problems and potential administrative techniques used to solve educational problems; format selected to stimulate intense personal discussion on individualized perceptual strategies and functional decision orientated educational leadership; participants must either be involved in educational administration or be willing to commit their free teaching time to administrative tasks. T. Provo (M,B) 3 sem. hrs. S-228.

ED9-290 9-291 **ADVANCED PHILOSOPHICAL FOUNDATIONS OF EDUCATION.** Oriented towards the total self of the student in terms of rationalistic pragmatic and existential-humanistic philosophies of education; emphasis on

the deepening, raising and broadening of one's consciousness about the philosophical phenomena of education, in the contexts of teaching and learning, knowledge and experience, and school and society; students expected to do an-indepth philosophical study of education, drawing upon the sources of knowledge and. experience that are to his/her own self-development. Ed9-290: D. Traub (T,A) 3 sem. hrs. S-124. ED9-291: C. Schlosser (M,B) 3 sem. hrs. S-124.

ED9-312 **INDIVIDUALIZING READING AND LANGUAGE ARTS IN ELEMENTARY SCHOOL.** Focus on means of teaching all of the skills children need to be able to master reading and language arts and insure their success in these areas; concentration on teaching reading and language arts skills through children's books; innovative methods, materials and games devised by participants in the course to meet the individual needs of children; curriculum materials and professional

texts evaluated and analyzed to cull out effective ideas that can be adopted and implemented for use in elementary classrooms; recommended course for Masters' degree candidates pursuing a concentration in language arts. A.B. Pilon (M.A.) 3 sem. hrs. S-124.

ED9-318 **COMMUNITY SCHOOL PROCESSES AND PROBLEMS.** Developing a theory of community education and testing the assumptions established as necessary parts of a successful community school; conceptual framework needed to effectively utilize the benefits of community education as an approach to making our schools more responsive to needs. W. O'Neil (T,A) 3 sem. hrs. S-224.

ED9-343 **INTELLECTUAL DEVELOPMENTIN EARLY CHILDHOOD EDUCATION.** The purpose of this course is to study the intellectual levels of children based on current research including Piaget, etc. The common growth patterns along with exceptionalities will be studied. J. Bunuan (W,A) 3 sem. hrs. S-214.

ED9-723 **ADVANCED URBAN EDUCATION.** Focus on the particular areas of significance to the urban child and teacher; specific emphasis on the identification of developmental levels and problems of inner city children, inquiry strategies for classroom situations, possible role playing and simulation games, values clarification, environmental studies, and creative expression. C. Quint (TH,A) 3 sem. hrs. S-211 A.

ED9-752 9-753 **ADVANCED PSYCHOLOGICAL FOUNDATIONS OF EDUCATION.** Class-members to study and evaluate the role of those environmental, mental and extramental forces which motivate all learners to utilize

fully and effectively their capacities, aptitudes and attitudes; a systematic analysis of the major schools of psychology with special attention focused on the contemporary schools; attention given to the teachers' role in the learning process and special emphasis on the application of these principles to specific classroom situations. Prerequisites: Educational Psychology or permission of the Instructor. ED9-752: J. Shea (W,A) 3 sem. hrs. S-124. ED9-753: B. Guarini (T,B) 3 sem. hrs. S-223.

ENGLISH

EN7-110 **SURVEY OF AMERICAN LITERATURE I.** American literature up to the Civil War; colonial and federal periods and transcendentalists. T.B.A. (W.B) 3 sem. hrs. S-126.

EN7-111 **SURVEY OF AMERICAN LITERATURE II.** Continuation of Survey of English Literature I; American Literature after the Civil War; naturalism and realism. R. Walker (TH,B) 3 sem. hrs. S-132.

EN7-158 **SCIENCE FICTION.** The nature and function of nineteenth and twentieth century science fiction literature: H.G. Wells, Jules Verne, Isaac Asimow, Ray Bradbury, and others. N. Barraford (M&W, C) 3 sem. hrs. S-316.

EN8-177 **WHITMAN TO GINSBERG.** How American poets responded to the expansive poetic theories of Walt Whitman; development of American poetry as a dialectic between those poets who responded sympathetically to Whitman's poetics and those who reacted negatively. C.K. Gibbs (TH,A) 3 sem. hrs. S-219 B.

EN8-187 **INFLUENCE OF ROMANTICS ON MODERN POETRY.** Impact of the major romantic poets, Wadsworth, Coleridge, Byron, Shelly and Keats on Twentieth century poetry. P. Edmunds (M,A) 3 sem. hrs. S-219B.

EN8-205 **THE THEATRE OF REVOLT.** A study of eight major playwrights of the modern theatre in terms of their messianic, social or existential revolt; the plays of Ibsen, Strindberg, Chekhov, Shaw, Brecht, Pirandello, O'Neil and Genet considered. J. Roberts (M,B) 3 sem. hrs. S-117 A.

GEOGRAPHY

GE8-427 **WORLD REGIONAL GEOGRAPHY, PART I.** Development of a greater understanding and appreciation of the different characteristics of the people of the earth in their national groupings, on the stage of the natural geographic environment and its relation to

political, economic, and social problems; emphasis on Europe, the U.S.S.R. and the Middle East. G.A. Knadler (W,B) 3 sem. hrs. A-316.

GE8-428 **GEOGRAPHY OF VINICULTURE.** The cultivation of wine grapes and their manufacture into wine; regional stress — United States, France, Germany and Italy; topical stress — physical geographic relationships, manufacture, marketing and consumption; wine sampling required. R.W. Thompson (M,A) 3 sem. hrs. A-304.

GUIDANCE

GU8-061 **PRINCIPLES AND PRACTICES IN GUIDANCE.** Provides the student with an understanding of the need, meaning and scope of guidance services; principles and practices involved in the following guidance areas considered — introduction and philosophy of guidance, understanding the individual and his needs, essential orientation activities for the student, collecting, recording and evaluating data, interviewing and counseling, guidance through group activities, placement and follow-up activities, organization and evaluation of guidance; emphasis on the role of the classroom teacher in the guidance program; this course or its' equivalent is a prerequisite for all advanced courses in guidance. J. Scannell (TH,B) 3 sem. hrs. S-126.

GU8-063 **TECHNIQUES OF COUNSELING.** An introductory level course in the basic fundamentals of counseling; required course for students majoring in Counseling or wish to be certified as Counselors in Massachusetts; in addition to the basic principles of counseling, students are involved in various role playing techniques; where applicable the case study techniques employed. Prerequisite: Principles of Guidance. L.F. Farrey (T,B) 3 sem. hrs. S-217.

GU8-261 **MEASUREMENT AND EVALUATION FOR COUNSELORS.** Measurement and evaluation techniques used by guidance counselors and school psychologists; the selection, administration, and interpretation of achievement, aptitude, interest and affective measures. D. Quist (T,A) 3 sem. hrs. S-227.

HEALTH

HE8-843 **HUMAN SEXUAL AWARENESS.** Focus on sexual awareness and the kinds of sexual attitudes and messages that are conveyed, both verbally and nonverbally, by one to another; emphasis placed on examining attitudes and previous learning about sex and sexuality. T.B.A. (M,A) 3 sem. hrs. LRC-304.

HE8-844 **VALUES CLARIFICATION IN HEALTH EDUCATION.** The importance of setting up a climate conducive to group sharing and the necessity and techniques of values clarification in health education; students asked to take part in and design their own values model for use in teaching. T.B.A. (W,A) 3 sem. hrs. S-304.

HISTORY

HI8-122 **THE IMAGE AND ROLE OF WOMEN IN WESTERN HISTORY.** The changing image of women and their real role at several pivotal stages in European history; historical evidence and literary works used to probe into the causes and consequences of the fantasy and reality for the individual (female and male) and society. G. Leeds (W,B) 3 sem. hrs. S-225 A.

HI8-672 **THE UNITED STATES AND EAST ASIA.** America's role in East Asia from 1784 to the present; consideration to the China Trade, American-Japanese relations during the 1930's, World War II, U.S.-Chinese Communist relations and America's involvement in Indochina. E.Shea (TH,A) 3 sem. hrs. S-217.

HI8-673 **ISLAMIC HISTORY I.** The rise and expansion of Islam, its beliefs and duties, the Caliphate, the Arab empire, the Arab-Muslim civilization and the decline of Medieval Islam. N. Saliba (M,B) 3 sem. hrs. S-219 A.

HI8-693 **RUSSIA IN THE ERA OF CATHERINE THE GREAT.** Catherine II and her Russia studied in depth and detail in a multitude of aspects-social, political, economic and religious; foreign policy, Pugachev's revolt, Catherine's personality and personal history as well as her attitude toward the Enlightment and the French Revolution discussed; Catherine is undoubtedly one of the most fascinating figures in history and a vital part of that fascination is that she ruled Russia in a significant era. G. Leeds (T,A) 3 sem. hrs. S-225 A.

HI8-866 **HISTORY OF ENGLAND 1485-1714.** The significant changes in English economics and politics from the beginning of the Tudor era to the end of the Stuarts; emphasis on the impact of the English Reformation and the vicissitudes of the monarchs and the evolution of Parliament, the structure of society, the foreign relations; attention given to the emergence of Ireland as a domestic issue. C. Yuan (W,A) 3 sem. hrs. S-225.

MATHEMATICS

MA8-568 **SPECIAL PROBLEMS IN MATH.** Opportunity to study some topics in mathematics not usually covered in formal course work; a preparation for students to do independent work in their field of interest; individually

motivated study of a problem or sub-problem under the guidance and supervision of a faculty member. Staff (TH,A) 3 sem. hrs. S-212.

MA8-571 CALCULUS II. For teachers of grades 7-12; recommended by the Committee on the Undergraduate Program in Mathematics (CUPM); offers a modern treatment of the calculus for functions of one variable; transcendental functions of one integration, determinants and linear equations, polar coordinates, vectors and parametric equations. M. Kotzen (M,B) 3 sem. hrs. S-132.

MA8-576 NUMBER THEORY. A thorough and concise exploration of some of the fundamental properties of the natural number system; topics will include — divisors and prime numbers, fundamental properties of congruences, and quadratic residues. R. Perry (T,A) 3 sem. hrs. S-205.

MA8-578 MODERN MATHEMATICS. Intended to provide the student with an understanding of sets in their related concepts; subset, power sets, cartesian products; certain relations and operations developed; investigation of mathematical models in terms of minimum requirements necessary for such models leading to a study of groups, rings and fields; additional topics will include — construction of the rational numbers from sets induction, other base numeration systems, and the Euclidean methods of solving a certain class of problems numerically. V. Campo (W,B) 3 sem. hrs. S-211A.

MEDIA

ME8-101 INTRODUCTION TO MEDIA. An overview of the field of communication media leading to an understanding of the important channels through which information must pass and of the operation of the more familiar instruments of communication used in schools, libraries, and training programs; introduction to the major sources of information and the systematic ways in which it is stored and retrieved. Staff (M,A) 3 sem. hrs. LRC-118.

ME8-152 UTILIZATION OF INSTRUCTIONAL MEDIA. Opportunity to learn about a variety of audio-visual machines, devices, procedures, techniques and materials which make up the area of activity generally referred to as Audio-Visual or Instructional Media. G. Mitchell (W,A) 3 sem. hrs. LRC-118.

ME8-160 PRODUCTION & DIRECTION OF THE T.V. PROGRAMS. Familiarization of all aspects of closed circuit television production including sound, lighting, graphics staging, production, and equipment operation; student

will write, direct and operate camera and video-tape recorder in the production of a program. R. Jones (T,C) 3 sem. hrs. LRC-160.

ME8-330 LEARNING RESOURCES FOR CHILDREN. Establishes criteria for evaluating and selecting print and non-print materials for elementary school library; the use and limitations of standard selection aids and review media; special problems associated with censorship, materials requiring audio-visual production, acquisitions and procedures, and weeding discussed. V. Piccolo (W,B) 3 sem. hrs. LRC-116.

MUSIC

MU8-251 MUSIC APPRECIATION. Increasing one's knowledge and enjoyment of music; periods covered include — Renaissance, Baroque, Classical, Romantic and Twentieth Century; recordings and listening are important. No prerequisites or previous musical background required. L. Celona (M,B) 3 sem. hrs. S-125.

NATURAL SCIENCE

NS8-860 ASTRONOMY IN THE SPACE AGE. Through lectures, discussions, and demonstrations students become familiar with the solar system, planetary and stellar motions, the physical characteristics of stars, the galaxies, our calendar, astronomical time and calculations, cosmogony, and space travel speculations. H. Chapman (T,B) 3 sem. hrs. S-228.

NURSING

NU7-320 NURSING THROUGH THE LIFE SPAN I- Maternal-child Nursing. A course for Registered Nurses in which the concepts of nursing process as applied to maternal-child nursing practice will be the focus. M. Farrell (S, 9-11:30 a.m.) 3 sem. hrs.

NU8-930 THE PERSON IN THE PROFESSION OF NURSING. Designed for Registered Nurses to provide the opportunity to explore the importance of self and understanding of self in relation to others and in relation to the profession. L.R. Goodman (T,A) 3 sem. hrs.

NU8-934 CORONARY CARE FOR NURSES. A course designed to prepare the professional nurse to assess the patient as an individual in the Coronary Care Unit and to provide direct comprehensive intensive nursing care. The importance of effective communications with other health team members concerning the needs of the cardiac patient will also be stressed. M.K. Alexander, (T,TH, A) 6 sem. hrs.

PHILOSOPHY

PH7-101 **INTRODUCTION TO PHILOSOPHY.** A study of the nature, purpose and problems of philosophy in order to challenge the student to develop his own philosophical perspective. N. Brophy (M,A) 3 sem. hrs. S-216.

PH7-320 **RELIGION EAST AND WEST.** A comparison and contrast of Eastern and Western religious thought and practice, with special emphasis on what the West has to learn from the East and how Eastern thought can supplement Western thought; consideration given to the contributions and problems of what Western religious thought has brought to the East; work of Joseph Campbell, Mircea Elieade, D. T. Suzuki, and John Dunne provides basic themes of course. G. Garrelts (T,A) 3 sem. hrs. S-312.

PH8-100 **LOGIC, KNOWLEDGE AND WISDOM.** A dialectical approach to the kinds of human knowledge and the nature of science and philosophy for the purpose of establishing an interdisciplinary understanding of curriculums; introduction to the basic forms of logical inquiry in order to formulate and evaluate logical arguments as a means of philosophical investigation and a defense against contemporary rhetoric. D. F. Traub (W,B) 3 sem. hrs. S-211 A.

PH8-120 **PHILOSOPHICAL PSYCHOLOGY.** The philosophical problems relevant to human nature and the human person; problems of mind, body, soul, life, death, immortality, knowledge, intellect, free-will and evolution examined; the empirical and meta-emphirical metrodologies; human nature, in its physical and spiritual dimensions, viewed scientifically and philosophically. N. Brophy (W,B) 3 sem. hrs. S-211 B.

PH8-130 **ETHICS: MORAL DIMENSIONS OF HUMAN EXISTENCE.** A dialectical examination of the questions – Is life worth living? What is good? How do we judge these matters? Are there any standards? Which is more important, conscience or law? How do I resolve the problems of justice, abortion, divorce, lying, war, punishment, love, friendship and happiness? N. Brophy (TH,B) 3 sem. hrs. S-211 B.

PH8-245 **PHILOSOPHY OF SOCIAL SCIENCES.** Theories and methods of Social Science examined in order to disclose the implicit premises of Social Science models of man, and delineation of the existential ramifications of the premises; these deliberations are the bases for discussing the question – What are (or should be) the differences between Social Science and other kinds of Science? G. Robbins (TH,B) 3 sem. hrs. S-219 A.

PH8-747 8-748 **PHILOSOPHY OF HUMAN POTENTIALITY – An Experiential Approach.** Theories and practices from the Human Potentials Movement used to unlock the potentialities for growth and self-being of each participant; the concepts and experiences of centering, encountering, energy-flow, self-actualization, consciousness-deepening, body-awareness and creative-freedom, developed through intrapersonal, interpersonal and transpersonal situations; focus on the existentiality and spirituality of human experiencing. PH8-747: C. Schlosser (TH,B) 3 sem. hrs. LRC-304. Ph8-748: C. Schlosser (W,B) 3 sem. hrs. S-126.

PHYSICAL EDUCATION

PE8-291 **TECHNIQUES OF TEACHING TEAM SPORTS.** Principles, techniques, and psychology of coaching; teaching techniques involved in competitive athletics at the elementary, junior high, and senior high school levels and basic principles of teaching sports fundamentals emphasized; athletic programs and patterns of coaching of specific sports on various grade levels studied, demonstrated, and evaluated in terms of the needs and interests of the students. F.T. Dyson (W,A) 3 sem. hrs. S-212.

PE8-298 **LEARNING THROUGH MOVEMENT AND INTERRELATED ARTS.** An experiential course dealing with student creativity in all the arts – emphasizing integration through movement; elements of movement interrelated with the elements of music, language arts and visual arts; individual and group experiences created around line, space, time, form, color and nature. H. Semerjian (M,A) 3 sem. hrs. Gym.

PSYCHOLOGY

PS7-110 **GENERAL PSYCHOLOGY I.** Psychology as a behavorial science; emphasis on history, scientific method, brain, nervous system, maturation, development, learning, motivation, and perception. J. Lonergan (M,A) 3 sem. hrs. S-205.

PS7-111 **GENERAL PSYCHOLOGY II.** Continuation of PS-7 110; orientation to psychology as introduced in General Psychology I; emphasis upon emotion, behavior disorders and topics in the social milieu. G. Matheson (W,B) 3 sem. hrs. S-205.

PS8-749 **THEORIES OF PERSONALITY.** Survey of the major theories of personality; understanding the person and why he behaves as he does explored through different theoretical frameworks with consideration given to the author's background, dynamics of per-

sonality, development of personality, methods of research and evaluation. R.A. O'Connor (T,B) 3 sem. hrs. S-224.

PS8-758 **PSYCHOLOGY OF THE ADOLESCENCE.** The mental, emotional, social and physical changes of the adolescent; special emphasis on peer group and school influences on development and the contemporary problems of adolescence. J. Jones (T,A) 3 sem. hrs. S-219 A.

PS8-760 **PSYCHOLOGY OF THE ADULT LEARNER.** Methods and materials of learning which can be adapted to adult education. Identifying educational needs, understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting learning and counseling procedures. Course individually programmed commensurate with student's background and progressional goals. T.B.A. (TH, A) 3 sem. hrs. S-211 B.

SPANISH

SP8-610 **FUNDAMENTALS OF SPANISH I.** The basics of Spanish with emphasis on correct oral expression and comprehension of the spoken language and on the development of a "stimulus response"; attention given to techniques of reading, writing and structure; extensive use of film-strips, tapes by native speakers, and modern dialogs oriented toward every day speech situations; after about two months, a paperback reader with practice exercises is introduced. F.J. O'Connor (W,B) 3 sem. hrs. S-312

SP8-613 **SPANISH PRACTICUM III.** A third semester continuation of Fundamental Spanish I and II; offered to those persons who wish to establish better communication and understanding with Spanish-speaking people with whom they might come in contact in their professions or daily life; students who need to make up Intermediate Spanish credits and find it impossible to do so during the regular scholastic year would also find this course useful; attention given to the four skills of speaking, listening, reading and writing; through more advanced readings (newspapers, magazines, etc.), a cultural appreciation of Spain and Hispanic America is presented; oral fluency reinforced by regular class participation and the language laboratory. K.M. Shea (T,A) 3 sem. hrs. S-211 B.

SP8-681 **CONTEMPORARY SPANISH NOVEL.** A study of several important novelists of Post Civil War Spain in light of their formal innovations; reflection of present day Spanish society as seen in their artistic,

philosophical, and social preoccupations. T.B.A. (TH, A) 3 sem. hrs. S-117 B.

SP8-682 **THE HISPANIC WORLD TODAY.** Social, economic and political institutions of Latin America; collective assumptions, values systems and customs; profound and accelerated changes, their significance for the future. T.B.A. (W,B) 3 sem. hrs. S-123-B.

SP8-685 **METHODS AND MATERIALS IN THE BILINGUAL PROGRAM** Survey of methods and materials in the subjects taught in the bilingual schools. T.B.A. (M,B) 3 sem. hrs. S-123 B.

SPEECH and DRAMATICS

SD8-250 **ORAL INTERPRETATION OF LITERATURE.** The techniques of oral expression of literature applied to a variety of material, both prose and poetry; selections from lyric, narrative and dramatic sources are analyzed and presented by the student. D. Seiffer (T,A) 3 sem. hrs. LRC-118.

SD8-290 **THEATRE FOR CHILDREN.** Organization and conduct of children's theatre; the selection of a play, casting, rehearsals, makeup, central staging, and other problems in putting on plays in classrooms and other limited areas. A.M. Shea (TH,A) 3 sem. hrs. LRC-112.

SD8-311 **COSTUME AND MAKEUP FOR PERFORMANCE.** Covers the basics of history, design and practical techniques; actual construction of costumes and application of make-up are part of the practicum; consideration of special problems of costumes and make-up for the cinema and television. A.M.Shea (TH,A) 3 sem. hrs. LRC-112.

SOCIOLOGY

SO8-221 **MEDICAL SOCIOLOGY.** Concentration on two related areas within the field — one area is the social organization of hospitals, the patterns of interaction within which doctors, nurses, patients and staff function, the attitudes held by the medical staff toward terminal patients and death in the hospital setting; the second area deals with mental hospitals and the social-psychological processes of becoming a patient, the processing of the patient within the hospital, and the career of the patient; discussions in both areas emphasizes interpersonal relations between doctors, nurses, hospital staff, patients, and patients' families within the hospital setting and outside it. B. Khleif (W,A) 3 sem. hrs. S-214.

SO8-222 **SOCIAL PSYCHOLOGY.** Dynamics of small group involvement and its effect on the individual's psycho-

logy as shaped by environmental influences. Prerequisite: SO-100 and one other content course. T.D. Johnson (T,B) 3 sem. hrs. S-219 B.

SO8-226 SEMINAR IN RESEARCH METHODS. Designed to prepare students majoring in sociology and economics for undertaking research projects; research methodology and presentation of data; field problems used as vehicle of instruction. Prerequisite: SO-100. F.L. Brooker (W,B) 3 sem. hrs. S-125.

SO8-227 URBAN SOCIOLOGY. The history of the city; the urban phenomena including the social psychology of man in the city, the city as a social system and urban problems connected with social planning in urbanized areas; the contemporary American metropolis with some attention to cross-cultural urban phenomena as well. Prerequisite: SO-100 and one other content course. M. Zelman (M,A) 3 sem. hrs. S-117 B.

SO8-475 INTRODUCTION TO SOCIOLOGY. The formal study of the nature of group behavior and social interaction through the analysis of the structure and values of human groups. F. Pizziferri (M,B) 3 sem. hrs. S-219 B.

SO8-480 JUVENILE DELINQUENCY. An examination of the social and legal phenomena surrounding youthful offenses and offenders; the postulates of sociological studies and theories, both classical and contemporary, of the conditions, causes, consequences, and correctional aspects of this form of deviant behavior will be considered in the context of community responses, popular and procedural, past and present, to this problem. R. W. Goss (TH,B) 3 sem. hrs. S-128.

URBAN STUDIES

UR8-212 THE CITY AND ITS PEOPLE. The growth of American industrial and post-industrial urban society emphasized from the perspective of group immigration patterns, community and neighborhood formation and transition, inter-group and intra-group relations, status and power, occupational differentiation, social mobility, and the adjustments required of newcomers to survive in a new and challenging environment. V. Powers (TH,B) 3 sem. hrs. S-117 B.

UR8-723 THE ANALYSIS OF URBAN LIVABILITY. The compilation and interpretation of surveys conducted by students, the analysis of urban activity and the effectiveness of various observational methods; the substantive theme will be livability in urban areas derived by examining satisfaction-dissatisfaction patterns concerned with conditions and services. Maximum enrollment 25 students. H. Langlois (TH,B) 3 sem. hrs. S-117 B.

Notes

Notes

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